## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Patent of:	)
MILLER .	) REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT FOR
Patent No.: 7,463,745	) <u>PTO MISTAKE</u> ) (37 C.F.R. 1.322(a))
Issued: December 9, 2008	)
Confirmation No.: 1346	)
Atty. File No.: 45568-00400	) . · ·
For: "PHASE BASED FEEDBACK OSCILLATION PREVENTION IN HEARING AIDS"	,
Commissioner for Patents	
P.O. Box 1450	
Alexandria, VA 22313-1450	

Dear Sir or Madam:

This is a request for a Certificate of Correction for PTO mistake under 37 C.F.R. 1.322(a). The errors in the patent are obvious typographical errors or omissions and the correct wording can be found in the Office Action having a mailing date of September 27, 2007. Attached is form PTO 1050 along with copies of documentation that unequivocally supports patentee's assertion(s).

Respectfully submitted,

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Date: 1/8/89



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1430 Alexandria, Viroinia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,446	04/09/2004	Scott Allan Miller III	45568-00400	1346
Travis C. Steph	7590 09/25/2007		EXAM	INER
	enson, esq. IMANN & BREYFOGL	ELLP	NI, SU	JHAN
Suite 411 3151 South Vau	ichn Way	RECEIVED	ART UNIT	PAPER NUMBER
Aurora, CO 800		SEP 2 8 2007	2615	
		MARSH FISCHMANN & BREYFOGLE LLP	MAIL DATE	DELIVERY MODE
		bhtrait i man a ann a	09/25/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		. " ".					
	Application No.	Applicant(s)					
055 4 1/2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10/821,446	MILLER, SCOTT ALLAN					
Office Action Summary	Examiner	Art Unit					
The MAILING DATE of this communication app	Suhan Ni	2615					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the t	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Estimations of them may be available under the provision of 37 cPR 1.1980, in no event, however, may a reply be through find after SIX (8) MOITHIS from the mailing date of this communication.  If NO genetic for reply is specified above, the maximum wild. By states, cause the specified by BOWTHS from the mailing date of this communication.  If NO genetic for reply is specified above, the maximum wild. By states, cause the application to become ARANDONED (38 U S.C. § 135).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patient term adjustment. See 37 CPR 1.79(40).							
Status							
1) Responsive to communication(s) filed on 09 Ap	oril 2004.						
2a) This action is FINAL. 2b) ☐ This	action is non-final.						
Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-35 is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5) Claim(s) is/are allowed.							
<ul> <li>6) ☐ Claim(s) is/are rejected.</li> <li>7) ☒ Claim(s) <u>3-8.15-19 and 27-32</u> is/are objected to</li> </ul>	•						
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine		Eveminer					
10)☐ The drawing(s) filed on is/are: a)☐ accomplicate may not request that any objection to the							
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:	,	, , , , ,					
<ol> <li>Certified copies of the priority document</li> </ol>							
<ol> <li>Certified copies of the priority documents have been received in Application No</li> </ol>							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Burear * See the attached detailed Office action for a list		-d					
See the attached detailed Office action for a list	of the certified copies not receive						
Attachment(s)	4) Interview Summan	(PTO-413)					
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate					
Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date 8/23/04.	5) Notice of Informal   6) Other:	Patent Application					
	. — —						

Application Number: 10/821,446

Art Unit: 2615

#### DETAILED ACTION

The Art Unit location of your application in the PTO has changed. To aid in correlating
any papers for this application, all further correspondence regarding this application should be
directed to Group Art Unit 2615.

2. This communication is responsive to the claims filed 04/09/2004.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) The invention was patemed or described in a printed publication in this or a foreign country or in public use or on asie in this country, more than one year prior to the date of application for parent in the United States.
(c) The invention was described in a patent granted on an application for patent by another filled in the United States before the invention thereofy by the applicant for patent, or on an international application by another who has fuffilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patents.

 Claims 1-2, 9, 12-14, 20, 23-26 and 33 are rejected under 35 U.S.C. 102(e) as being anticipated by Fretz (U. S. Pat. App. – 2005/0047620).

Regarding claims 1-2, 14 and 25, Fretz discloses a hearing aid comprising: a microphone (206) to receive audio inputs and provide a response signal (208); a signal processor to process the response signal (236) to generate a transducer drive signal (210), wherein a portion of one of the response signal and the transducer drive signal is received over a feedback path (202) as a feedback signal; a transducer (210) to utilize the transducer drive signal to stimulate a component of the auditory system; phase shifter logic (248) to shift the phase of the feedback signal in a predetermined amount (240), without modification of signal gain characteristics, to achieve a non-zero net phase of the feedback signal over the feedback path as claimed.

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Regarding claims 9, 20, 26, Fretz further discloses the hearing aid, comprising: adaptive circuitry (244) to determine the phase of the feedback signal over the feedback path.

Regarding claims 12-13, 23-24 and 33, Fretz further discloses the hearing aid, wherein the phase shifter logic (248) is configured to shift the phase based on the patient's ability to detect audio queues generated by the phase shift to minimize the patient's detection of the phase shift (Fig. 2) as claimed.

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 10-11, 21-22 and 34-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fretz (U. S. Pat. App. – 2005/0047620).

Regarding claims 10-11, 21-22 and 34-35, Fretz may not specially teach the phase shifting range as claimed. Since Fretz does not specially restrict the phase shifting range and providing a suitable range for the hearing aid to reduce noises is very well known in the art, it therefore would have been obvious to one having ordinary skill in the art at the time the invention was made to be motivated to provide a phase shifter with desirable shifting range, such as 200 degree for the hearing aid as an alternate choice, in order to provide a hearing aid with desirable noise cancellation capability for specific individual and/or under specific circumstances.

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#### Allowable Subject Matter

5. Claims 3-8, 15-19 and 27-32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suhan Ni whose telephone number is (571)-272-7505, and the number for fax machine is (571)-273-7505. The examiner can normally be reached on Tuesday and Thursday from 10:00 am to 8:00 pm, and may be reached on Monday, Wednesday and Friday from 10:00 am to 8:00 pm. If it is necessary, the examiner's supervisor, Sinh N. Tran, can be reached at (571)-272-7564.
- 8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov/">http://pair-direct.uspto.gov/</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).
- 9. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (571)-272-2600, or please see http://www.usnto.gov/web/info/2600.

8/28/2007

SUHAN NI

						ATTY DOCKET NO. 45568-00400		SERIAL NO. 10/821,446		
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)										
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		13.	6,128,392	10/03/00	LEYSII	EFFER et al.	381	318		
		14.	6,134,329	10/17/00	GAO et	al.	381	60		
	Ĺ	15.	6,151,400	11/21/00	SELIG	MAN	381	317		
		16.	6,163,287	12/19/00	HUAN	3	341	143		
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A TORY	€ TU!	L. William	U.S	. PATENT	DOCUMENTS				
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30	1.	5,402,496	03/28/95	SOLI		381	94.2		
٨	2.	5,475,759	12/12/95	ENGE	BRESTON	381	318		
1	3.	5,500,902	03/19/96	STOCE	CHAM JR. et al	381	320		
li	4.	5,680,467	10/21/97	HANSI	EN	381	314		
1	5.	5,848,171	12/08/98	STOCE	CHAM JR. et al.	381	321		
1/	6.	5,912,977	06/15/99	GOTT	SCHALK-SCHOENIG	381	321		
$\forall$	7.	6,044,162	03/28/00	MEAD	et al.	381	312		
$\top$	8.	6,072,884	06/06/00	KATES	S	381	318		
	9.	6,072,885	06/06/00	STOCI	KHAM JR. et al.	381	321		
1	10.	6,097,823	08/01/00	KUO		381	312		
4	11.	6,104,822	08/15/00	MELA	NSON et al.	381	320		
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Form PTO-A820 (also form PTO-1449)

## Notice of References Cited

Applicant(s)/Patent Under Application/Control No. Reexamination 10/821,446 MILLER, SCOTT ALLAN Art Unit Examiner Page 1 of 1 2615 Suhan Ni

U.S. PATENT DOCUMENTS

	U.S. PATENT DOCUMENTS							
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification			
*	Α	US-2005/0047620 A1	03-2005	Fretz, Robert J.	381/318			
	В	US-						
	С	US-						
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"A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)